

MANUFACTURE OF STABLE OIL-IN-WATER TYPE EMULSION

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Abstract

PURPOSE: To make manufacture easy and increase stability by bringing an emulsion consisting of an oily component, hydrophilic non-ionic surfactant and polyhydric alcohol to contact with water for phase inversion and reversing the emulsion to an oil-in-water type emulsion.

CONSTITUTION: An oily component and a hydrophilic no-ionic surfactant are dissolved uniformly, and a polyhydric alcohol is added to this solution while stirring to prepare an emulsion. The preferable addition rate of polyhydric alcohol is 50-70pts.wt. to the 100pts.wt. of the oily component. The addition rate of the hydrophilic non-ionic surfactant is preferably 6-40pts.wt. to the 100pts.wt. of the oily component. Next, the emulsion containing polyhydric alcohol as a dispersoid is brought to contact with water for phase inversion and as a result of this inversion, an emulsion containing an oily component as a dispersoid is obtained. The best addition rate of water is 90-75wt.% to the total emulsion.